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# REPORT

OF THE

## COMMISSIONER OF THE INTERIOR FOR PORTO RICO

TO THE

SECRETARY OF THE INTERIOR, U. S. A.

— —  
1905.  
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WASHINGTON:  
GOVERNMENT PRINTING OFFICE.  
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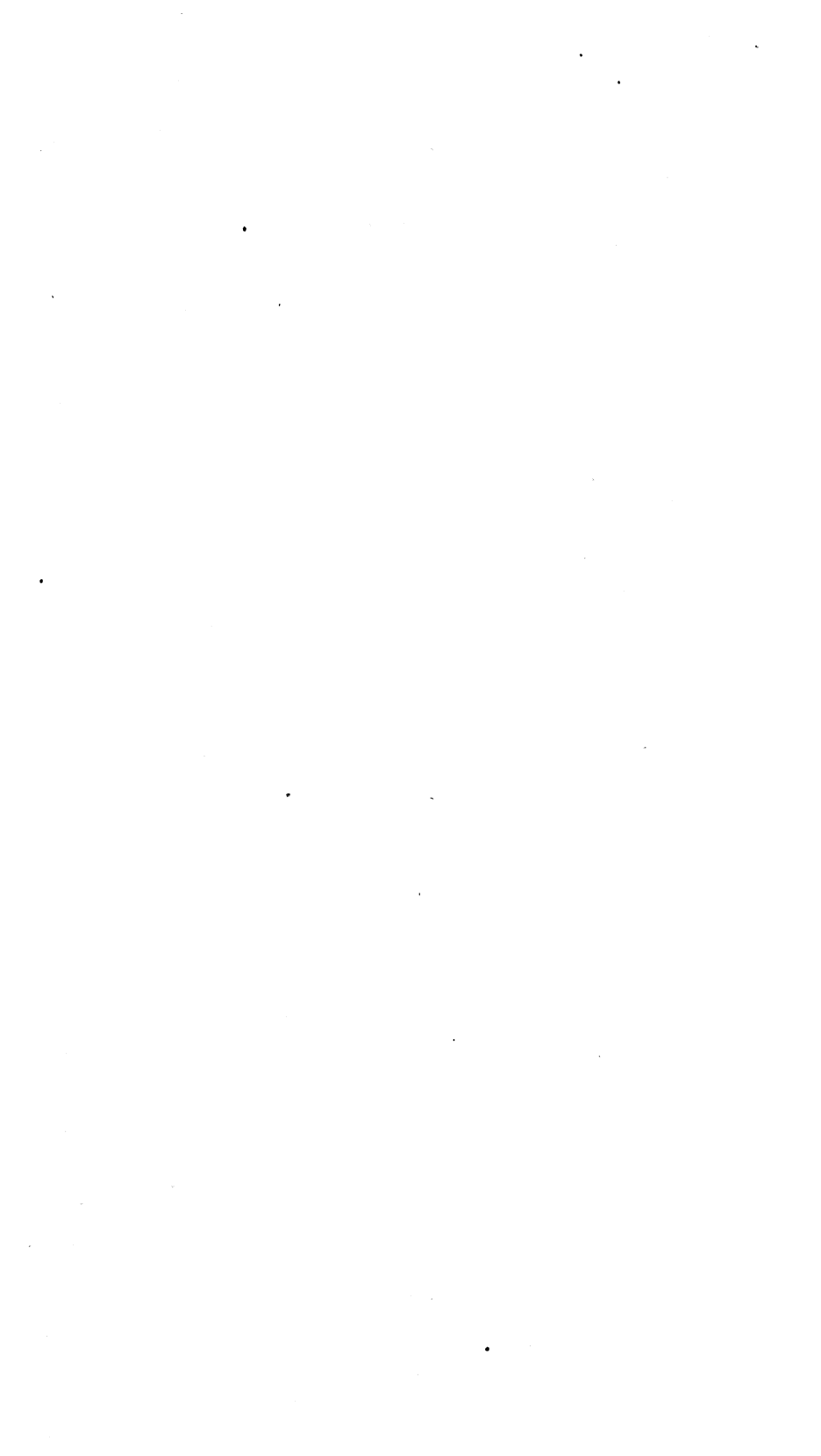
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## TABLE OF CONTENTS.

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	Page.
Letter of transmittal.....	5
Bureau of Public Works.....	7
TABLE No. 1.—Statement of expenditures, insular roads, fiscal year ended June 30, 1905.....	8
TABLE No. 2.—Comparative expenditures.....	10
TABLE No. 3.—Construction and repair of roads and bridges, under trust fund.....	13
TABLE No. 4.—Proposed construction during next four years.....	15
Recommendations.—Roads and bridges.....	15
Bureau of Insular Telegraph.....	15
TABLE No. 5.—Statement showing amount of cash receipts and computed value of free business handled by the Bureau during fiscal years 1903-4 and 1904-5, etc.....	16
Division of Public Lands.....	16
Bureau of Docks and Harbors.....	17
TABLE No. 6.—Harbor fees in ports of San Juan, Ponce, and Mayaguez, fiscal year ended June 30, 1905.....	17
TABLE No. 7.—Number, character, and tonnage of vessels entering San Juan, Ponce, and Mayaguez, year ended June 30, 1905.....	18
Division of Public Buildings.....	18
TABLE No. 8.—Maintenance and repair of public buildings.....	18
TABLE No. 9.—Preservation, care and repairs.....	19
Appendix:	
Personnel.....	21
Map of public lands of Porto Rico.	
Map of the island of Porto Rico.	



## LETTER OF TRANSMITTAL.

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DEPARTMENT OF THE INTERIOR,  
*Washington, December 6, 1905.*

SIR: In compliance with the requirements of section 24 of the act of Congress entitled "An act temporarily to provide revenues and a civil government for Porto Rico, and for other purposes," approved April 12, 1900 (31 Stat. L., 82), I have the honor to transmit herewith the report of the Commissioner of the Interior for Porto Rico for the fiscal year ended June 30, 1905.

Very respectfully,

E. A. HITCHCOCK,  
*Secretary.*

The PRESIDENT OF THE UNITED STATES SENATE.





# REPORT OF THE COMMISSIONER OF THE INTERIOR.

DEPARTMENT OF THE INTERIOR OF PORTO RICO,  
OFFICE OF THE COMMISSIONER,  
*San Juan, September 13, 1905.*

The Honorable the SECRETARY OF THE INTERIOR.

SIR: In compliance with instructions for this Department, as shown in your letter of June 7, 1905, to the governor of Porto Rico, which reads as follows:

I have the honor to invite your attention to section 24 of the act of Congress approved April 12, 1900 (31 Stat. L., 77), entitled 'An act temporarily to provide revenue and a civil government for Porto Rico, and for other purposes,' which provides as follows:

'That the commissioner of the interior shall superintend all works of a public nature, and shall have charge of all public buildings, grounds, and lands, except those belonging to the United States, and shall execute such requirements as may be imposed by law with respect thereto, and shall perform such other duties as may be prescribed by law, and make such reports through the governor to the Secretary of the Interior of the United States as he may require, which shall annually be transmitted to Congress.'

I have to request that you will cause this matter to be brought to the attention of the commissioner of the interior, with the request that he will prepare and forward through you for my consideration, at a date not later than October 1, 1905, a report of the matters pertaining to Porto Rico with which he is charged under existing laws. It is also desirable that he embody in his report a detailed statement brought down to date of the character, quantity, and location of crown lands, the ownership of which the United States succeeded to by virtue of the treaty of Paris, together with a statement of the quantity and location of all unreclaimed or swamp lands in Porto Rico. This report should cover the period from July 1, 1902, to the date of its rendition. In this connection it is suggested that statistical statements embodied in the report should not be given from estimates where it is possible to obtain the same from original sources.

It is deemed proper to add that in the interest of economy it is desirable that the report should be as brief as circumstances will permit, and that all unimportant exhibits be omitted, as well as photographs not intended to show the condition and industrial progress of the Territory.

The manuscript of the report should, as far as practicable, be typewritten, free from interlineations, properly paged, and provided with a table of contents. All exhibits should be suitably marked and referred to by such marks wherever mention is made of them in the body of the report.

It is desirable that the report of the commissioner of the interior of Porto Rico be submitted to the Department within the time above specified, in order that proper consideration may be given to the important subjects therein requiring attention in the annual report of the Secretary of the Interior to the President.

I have the honor to make the following report, beginning with the statement that my own connection with this Department dates from February 9 of this year:

## BUREAU OF PUBLIC WORKS.

### MAINTENANCE OF INSULAR ROADS.

The same now under maintenance by the insular government have an aggregate length of 662 kilometers, and the accompanying table, No. 1, gives some details of maintenance disbursements deemed necessary.

TABLE 1.—*Expenditures insular roads year ended June 30, 1905.*

Road No.	Road divisions, etc.	Length.	Broken stone for macadam.					
			Stone delivered.			Stone placed.		
			Held over.	New.	Cost.	Quantity.	Cost.	
SAN JUAN DISTRICT.			<i>Kilos.</i>	<i>Cub. m.</i>	<i>Cub. m.</i>		<i>Cub. m.</i>	
1	San Juan-Cayey .....	61	1,050	11,109	\$23,914.62	6,417	\$5,541.19	
2	Cataño-Vega Alta .....	27		1,990	2,562.55	1,558	1,125.67	
10	Reyes Catolicos-Corozal .....	17	1,320	1,518	2,192.40	2,190	1,413.65	
9	Bayamon-Comerio .....	19	100	350	560.00			
5	Caguas-Humacao Playa .....	39		3,980	6,169.00	3,920	3,586.54	
7	Rio Piedras-Humacao Playa .....	74	400	2,248	2,014.22	2,548	1,982.41	
6	Arecibo-Tallones .....	43		1,577	1,030.06	1,155	708.83	
11	Manati-Ciales .....	25	800	1,266	584.56	1,663	1,449.16	
7	Arroyo-Humacao .....	13		158	176.97	22		
PONCE DISTRICT.								
1	Cayey-Ponce .....	69	75	6,927	9,270.00	4,071	3,237.30	
4	Cayey-Arroyo .....	34		2,490	4,126.30	1,612	1,248.87	
6	Ponce-Tallones .....	39	256	2,175	2,253.60	1,224	967.24	
3	Ponce-Guayama .....	41	20	5,315	3,819.92	3,534	839.42	
MAYAGUEZ DISTRICT.								
2	Aguadilla-Camuy .....	42	1,815	1,560	1,436.20	2,673	1,734.55	
8	Aguadilla-Lares .....	38	675	5,147	6,699.73	5,640	4,059.40	
2	Mayaguez-Añasco .....	9		752	1,122.00	564	344.08	
14	Mayaguez-Las Marias .....	27		3,076	4,034.36	2,426	1,679.40	
3	Mayaguez-San German .....	20		2,323	3,896.80	1,053	810.97	
3	San German-Yauco .....	25	300	1,281	1,599.20	1,106	621.17	
		662	6,811	55,242	77,462.49	43,376	31,349.85	

Road No.	Road divisions, etc.	Length.	Cost of inspection.	Miscellaneous expenditures.	Total cost.	New bridges, culverts, and repairs on old.
SAN JUAN DISTRICT.						
		<i>Kilos.</i>				
1	San Juan-Cayey .....	61	\$2,472.75	\$4,146.90	\$36,075.46	\$930.39
2	Cataño-Vega Alta .....	27	981.00	1,297.81	5,967.03	430.66
10	Reyes Catolicos-Corozal .....	17	453.00	586.95	4,646.00	338.09
9	Bayamon-Comerio .....	19	1,316.50	840.24	2,716.74	1,630.20
5	Caguas-Humacao Playa .....	39	1,453.00	2,236.75	13,445.29	1,237.16
7	Rio Piedras-Humacao Playa .....	74	3,909.00	3,240.15	11,145.78	4,137.38
6	Arecibo-Tallones .....	43	1,942.16	2,545.68	6,226.73	
11	Manati-Ciales .....	25	1,017.50	591.94	3,643.16	191.83
7	Arroyo-Humacao .....	13	334.00	1,302.02	1,812.99	86.02
	Pending contracts and miscellaneous expenses .....					3,191.61
PONCE DISTRICT.						
1	Cayey-Ponce .....	69	3,978.26	1,655.44	18,141.00	1,126.04
4	Cayey-Arroyo .....	34	1,429.50	2,589.43	9,294.10	188.00
6	Ponce-Tallones .....	39	1,455.00	3,417.25	8,093.09	1,039.84
3	Ponce-Guayama .....	41	729.00	1,532.06	6,920.40	
	Pending contracts and miscellaneous expenses .....					861.75
MAYAGUEZ DISTRICT.						
2	Aguadilla-Camuy .....	42	1,590.87	1,385.81	6,147.43	679.50
8	Aguadilla-Lares .....	38	2,503.20	1,829.84	15,092.17	3,750.25
2	Mayaguez-Añasco .....	9	422.00	646.09	2,534.17	501.60
14	Mayaguez-Las Marias .....	27	1,238.19	1,236.37	8,188.32	301.74
3	Mayaguez-San German .....	20	1,315.00	1,108.47	7,131.24	879.00
3	San German-Yauco .....	25	428.00	1,048.10	3,696.47	
	Pending contracts and miscellaneous expenses .....					502.54
		662	28,967.93	33,237.30	171,017.57	22,003.60

The total appropriation voted for this year's maintenance amounted to \$190,680, the aggregate of the specific amounts to be applied to the necessary repairs on each road and to the repairs on old and construction of new bridges in the three engineering districts.

The aggregate of all moneys spent was \$193,021.17—an amount in excess of the appropriation by \$2,341.17. The excess was obtained by transferring to repair and maintenance of roads a portion of what had been saved in office force salaries since my assumption of office to June 30. The remainder of this saving (\$4,073.12) had unfortunately already been turned back into the treasury of the island.

Before making any analysis of the table of expenditures, I would like to state that on my taking office the field work on the roads was directly under 3 district engineers, respectively located in San Juan, Ponce, and Mayaguez, to whom 17 sobrestantes, or upper foremen, reported. Under the latter worked 35 capataces, or under foremen, each capataz looking after some 20 kilometers of road. The "permanent," or "caminero," system had already been abolished, and the system of hiring men to do the work as it was found necessary had gone into effect at the beginning of the fiscal year.

In March, 1905, the above-described superintendence was materially modified, and on the resignation of the 3 district engineers, with their clerks, and the 17 sobrestantes their combined duties were turned over to 7 "traveling inspectors," who thus come in direct contact with the 35 subordinate foremen, over whom they have absolute control. The inspectors' time is practically spent in patrolling their roads and in keeping an eye on their subordinates, to whom they assign each particular piece of work, and they alone are held responsible.

At the same time was started a general system of daily reports to be made by the 35 capataces to the superintendent of public works. These reports are postal cards already printed, so that the insertion of a dozen words or so in the proper place will tell exactly what the foreman is doing with his men and the cost of the day's work; also whether or not the inspector has been over that part of the road system. In case there is no work on hand the foreman reports, "no men, road in good condition." At the same time the inspector sends in his daily report, which is supposed to state what he saw and not what he was told.

These cards, when received in San Juan, are studied and the gist of their contents transferred to sheets of paper that hang on boards in the commissioner's office. Each sheet will carry two months' work, and the reports are carefully examined every day by someone in authority. This daily double report system, in conjunction with its glaring visibility inviting examination and criticism, checked by the frequent inspection trips made over the roads by the upper officials, has produced very good results—so much so that, although only operative during the last three months of the fiscal year of 1904-5, the saving has been \$12,372.16, which amount was mostly turned into broken stone for the benefit of road No. 1 between San Juan and Caguas, the contracts being available for the following year. The full benefit of these changes is looked for in the year ending June 30, 1906, and it is now certain that out of the \$200,000 appropriated for outdoor work at least some \$60,000 will be saved for the purpose of replacing certain important bridges, one at Carolina and the other over the Caguitas

River, near Caguas, whose rehabilitation otherwise would have had to wait for a special appropriation.

Bids, plans, and specifications for the new iron work for these bridges are now being advertised for in American and Porto Rican papers, and in the meantime whatever engineering work can be accomplished on the island is already under way.

An analysis of Table No. 1 gives us reasons to believe that in future great economies can be made in a more judicious use of broken stone—in a more extensive use of gravel, where available, instead of the more expensive broken stone—and particularly in those expenditures figuring under the head of miscellaneous, which apparently cover a good deal of unnecessary or wasteful work.

It is only fair to note that out of the \$22,003.60 spent on bridges and culverts, \$12,000.05 were spent on new or practically new construction.

Miscellaneous expenditures amounting to \$33,277.30 were largely the result of allowing unwatched subordinates the right to hire men, often their friends, to "potter around." A large part of the \$12,372.16 saved in the last three months of the year is due to a closer scrutiny of these last expenditures. Landslides, and to a minor extent the cleaning of ditches, of course figure in this item, and it is estimated that \$6,000 will do such work, provided no widespread havoc is produced by cloudbursts or by a cyclone.

A comparative table is here presented, throwing some light on the figures for 1903, 1904, 1905, and what is hoped for in the year ending June 30, 1906.

TABLE N<sup>o</sup>. 2.—*Comparative expenditures.*

Year ending June 30—	Kilometers under maintenance.	Total cost of maintenance.	Cost per kilometer.	Broken stone used per kilometer.
				<i>Cubic meters.</i>
1903 .....	445.1	\$176,783.07	\$397.18	62.5
1904 .....	518.2	193,737.37	373.87	58.3
1905 .....	662	193,021.17	291.57	66.5
1906, probable expenditures .....	662	125,372.00	189.39	77.0

No year prior to 1903 is shown, so as to eliminate as much as possible in the comparison expenditures due to the cyclone of 1899. It is somewhat gratifying to say that the cost of maintenance per kilometer has come down from \$397.18 in 1903 to \$291.57—a drop of \$105.61. There is practically no doubt that the figures lower down opposite "1906, probable expenditures," will fairly well represent those of the present year, bringing down the cost of maintenance per kilometer to \$189.39.

So that it may not be thought that this may mean little more than the practice of economies amounting to neglect of the roads, your attention is directed to column 5 of the aforesaid comparative table, showing the respective amounts of broken stone per kilometer put and to be put on the road system. As may be seen, the present year is credited with a marked increase in broken stone, and in this island good roads mean broken stone.

As to the cost of maintenance in the future, it is believed that if the people of Porto Rico wish to continue to have the use of good macadam highways, such as they have at present, they can not expect to pay for their maintenance much less than \$180 per kilometer.

Figuring on a basis of 50 cubic meters of broken stone as an average per kilometer the present 662 kilometers would foot up as follows:

	Amount.	Percent- age of total cost.
		<i>Per cent.</i>
Cost of broken stone and placing the same .....	\$71,663	61.1
Salaries of traveling inspectors and expenses .....	11,340	9.6
Salaries of foremen .....	13,512	11.5
Miscellaneous expenditures .....	20,800	17.8

Or about \$177.21 per kilometer.

These results presuppose, however, the purchase of a traction engine and train and a steam crusher in order to reduce the present extraordinary high cost of the broken stone over the first 18 kilometers of road No. 1, largely due to the high charges of transportation in carts.

The question naturally arises, Why should it cost even as much as the lowest figure, inasmuch as the same is not low?

Jamaica has been instanced as an island where the conditions are supposed to be somewhat similar, and the low figures given by the Jamaica Handbook for repairs on roads have been quoted in a way not exactly fair to Porto Rico.

Jamaica, somewhat larger than this island, with an estimated population of nearly 800,000, has at present some 1,930 miles of what are called main roads. The island is more mountainous than Porto Rico, and the roads are, generally speaking, niched out of white marl or coralline limestone hills. Ruts and holes that form in the roads are simply filled up with this marl or soft limestone, which is abundant and near the surface, and, generally speaking, it can be picked out near where repairs are needed. On account of such natural foundations the roads to a great extent, even when neglected for some time, do not become impassable—they simply get ragged.

Some four years spent in Jamaica enables me to state that conditions in that island are therefore far more favorable to cheap road maintenance than here, and I furthermore add that the Jamaica roads as a rule can not compare with ours, either in general features of construction, such as width and grades, or in the attention paid to first-class maintenance. As far as maintenance is concerned, it must be added that the Jamaicans are doing precisely what we would do had we the same physical advantages—that is, they are only trying to maintain a road system good enough for a population not particularly well to do.

The conditions are entirely different with us. Our roads, even when in the hills, are nearly altogether in a loam, clay, or decomposed rock (tosca) as a foundation. The traps, tufas, etc., in this island weather very deep, forming a top layer of soft, easily crushed material with a top covering of loam or clay. The result is, and it can not be too much emphasized, that our roads seldom have a good natural foundation, and in order to stay good have to have macadam, which means broken stone, which means money. These roads, if not in very good condition, soon become bad, and when neglected for a short time tend to become impassable in the wet season. Such roads when not well maintained refuse to stay in the "good enough" class.

It is also to be noted that the steep grades of the Jamaica road system, in conjunction with wise legislation, have tended to limit the loads imposed on wheels, and such an efficient instrument in cutting up roads as a wheel, often with a 2½-inch tire carrying 1 ton, is unknown. Lower wages and longer hours also obtain in Jamaica.

The preceding explains, in my opinion, why we shall have to pay nearly \$180 in order to accomplish what the Jamaica government seems to do, as well as I can make out from their handbook, with about \$100.

In addition to the 662 kilometers under insular maintenance, there are 53.8 kilometers of road built since 1898 and prior to June 30, 1904, whose maintenance was later on turned over to the local elective boards of road supervisors. The results have been most unfortunate, and these stretches of road should be taken back under the care of this department.

The aforesaid stretches are as follows:

	Kilos.		Kilos.
Consumo-Maricao .....	7.0	Caguas-Aguas Buenas.....	9.0
Mayaguez-Cabo Rojo .....	5.8	Naguabo-Naguabo Playa .....	3.0
Caguas-San Lorenzo .....	8.0	Lajas-San Germán.....	4.0
Cidra-Las Cruces .....	8.0		
Barranquitas-Aibonito .....	9.0	Total .....	53.8

#### TRUST-FUND WORK.

There is added Table No. 3, showing what has been done up to June 30, 1905, with this fund. We are at present at work on the Jayuya-Alto de la Bandera, Barros-Barranquitas, Humacao-Yabucoa, and Arroyo-Patillas roads.

TABLE 3.—Construction and repair of roads and bridges under "trust fund," June 30, 1905.

Designation.	Appropriation.	Amounts disbursed to June 30, 1904.	Amounts disbursed during 1904-5.	Balance June 30, 1905.	Length of road under construc- tion or re- pair under allotment.	Built to June 30, 1904.	Built during 1904-5.	Length to be built.	Remarks.
San Lorenzo-Caguas.....	\$15,000.00	\$15,000.00			Km. 9.0	Km. 8.0			{ 39.2 kilometers built under other allot- ments under military government.
Yabucoa-Manaboa road.....	43,000.00	38,000.00	\$4,560.28	\$439.72	9.0	8.0	1.0		
Arecibo-Ponce.....									{ 8.5 kilometers built under other allot- ments under military government. Road built by military government and afterwards repaired under this allotment.
Arecibo-Bacupey.....	42,726.00	42,726.00			22.0	22.0			
Defendini, 15 kilometers.....	90,000.00	79,000.00			4.5	4.5			{ 39.0 kilometers built under other allot- ments under military government. Road built by military government and afterwards repaired under this allotment.
Adjuntas-Utuado.....	79,000.00	79,000.00			39.0	39.0			
Tallones.....	85,000.00	85,000.00							{ Completed except railing.
Manati-Ciales, lot No. 4.....	42,357.19	42,357.19							
Caguas-Humacao road.....	65,000.00	65,000.00			6.0	4.0	2.0		{ Completed.
			4,783.83		20.0	9.5		10.5	
San German—"Peñuela" bridge.....	16,500.45	11,716.62							{ 3.8 kilometers built under other allot- ments under military government.
"Mavilla," River bridge.....	15,000.00	15,000.00							
Fajardo-Naguabo Playa road.....	22,000.40	21,999.78		.62	14.8	11.0	3.8		{ Completed.
San Sebastian-Lares road.....	92,002.00	78,000.91	14,001.09		16.5	15.0	1.0		
Yauco-Sabana Grande.....	69,282.50	67,524.02	1,553.11	205.37					{ 3.8 kilometers built under other allot- ments under military government.
Retaining wall at "Caniaco".....	17,407.00	17,407.00			14.5	14.5		8.0	
Right-of-way damages.....	2,637.89	2,637.89							{ Completed.
Bayamon-Comerio road.....	120,000.00	120,000.00							
Mameyes-Fajardo.....	36,000.00	35,087.27	912.73		18.0	11.7	.3	6.0	{ Do.
Ponce-Guayama road.....	50,000.50	34,537.15	15,463.35		56.0	20.0	14.0	22.0	
Camuy-Aguadilla.....	49,000.00	40,349.12	6,145.65	2,505.23	42.3	36.5	5.8	.5	{ Completed.
"Naguabo-Naguabo Playa.....	4,000.00	4,000.00			3.0	3.0			
"Fortuques" River Bridge.....	4,250.00	4,250.00			5.8	5.8			{ Do.
Mayaguez-Cabo rojo road.....	12,500.00	12,500.00							
"Anasco" River Bridge.....	8,500.00	7,644.29	657.97	197.74	6.0	2.5	.7	2.8	{ 8 kilometers built under military gov- ernment.
Vega-alta road.....	6,000.00	5,000.00	1,000.00		4.0	4.0			
San German-Lajas.....	4,500.00	4,373.34	126.66		7.5	.5	4.0	3.0	{ 8 kilometers built under military gov- ernment.
Arroyo-Partillas road.....	10,000.00	1,204.85	7,007.42	1,787.73	11.8	9.0	2.8		
Albionito-Barraquitas.....	21,000.00	15,000.00	6,000.00		14.0	8.0	6.0		{ 8 kilometers built under military gov- ernment.
Mayaguez-Consumo.....	20,500.00	13,947.46	6,552.54		4.5	.7	3.8		
Las Marias road.....	21,000.00	3,018.86	15,914.37	2,066.77					{ 8 kilometers built under military gov- ernment.
					10.0		7.0	3.0	
Consumo-Maricao.....	13,000.00	2,982.16	9,412.53	605.31	8.2	1.8	5.7	.7	{ 8 kilometers built under military gov- ernment.
Sabana Grande-San German.....	10,000.00	3,391.14	6,608.86						

TABLE 3.—Construction and repair of roads and bridges under "trust fund," June 30, 1905—Continued.

Designation.	Appropriation.	Amounts disbursed to June 30, 1904.	Amounts disbursed during 1904-5.	Balance June 30, 1905.	Length of road under construction or re- pair under allotment.	Built to June 30, 1904.	Built during 1904-5.	Length to be built.	Remarks.
					Km.	Km.	Km.	Km.	
Morovis Branch-Manatiales....	\$8,900.00	\$22.65	\$8,877.35	.....	11.7	6.0	5.7	.....	6 kilometers graded under military gov- ernment and with regular budget.
Rio Piedras-Trujillo alto .....	8,000.00		4,013.48	\$76.28					
"Manati" River Bridge .....	15,223.80	3,910.24	6,785.65	8,438.75	7.8	1.7	1.8	4.3	Under contract.
"Coamo" Springs road .....	2,000.00	.....	1,914.90	86.10	5.0	.....	3.0	2.0	
Jayuya-Alto Bandera .....	32,000.00	.....	14,425.82	17,574.18	19.0	.....	4.5	14.9	
Barros-Barranquitas .....	37,000.00	.....	7,995.13	29,004.87	15.0	.....	2.5	12.8	
Humacao-Yabucoa .....	25,000.00	.....	13,096.80	11,903.20	15.0	.....	4.0	10.5	
Gomerio-Naranjito .....	5,000.00	.....	5,000.00	.....	5.0	.....	4.0	1.0	
Total .....	1,220,287.73	982,587.94	162,808.92	74,890.87	424.9	246.7	82.9	102.0	



## RECOMMENDATIONS.

The island needs most imperatively additional roads, particularly in the coffee districts, and the following table, No. 4, gives what in the judgment of this department should be built in the next four years.

TABLE No 4.—*Proposed construction during next four years.*

Road.	Approximate length.	Estimated cost to complete road.	Road.	Approximate length.	Estimated cost to complete road.
	<i>Kms.</i>			<i>Kms.</i>	
Lares-Adjuntas.....	27	\$90,000.00	Mameyes-Luquillo.....	6	\$14,000.00
Las Marias-Lares.....	18	72,000.00	Naguabo-Fajardo.....	6	12,000.00
Jayuya-Barros.....	27	150,000.00	Trujillo-Alto Gap.....	4	8,000.00
Barros-Corozal.....	23	92,000.00	Maricao Gap.....	4	12,000.00
Comerio road.....	8	55,000.00	Ciales-Juana Diaz.....	42	168,000.00
Aguirre-Guayama.....	11	15,000.00			
San Lorenzo Gap.....	1	5,000.00	Total.....	178½	700,000.00
Adjuntas change.....	1½	7,000.00			

There should also be spent during the same interval \$400,000 in new bridges and in the replacing of many of the old wooden bridges by steel or masonry structures.

The above work distributed over four years means the expenditure of only \$275,000 a year, a sum easily raised by a loan or possibly secured from the surplus that seems to be on the increase in the insular treasury. The intention of this department would be, in case such sum were put into its hands, to spend during the first year \$175,000 on new roads, as follows:

Lares-Adjuntas.....	\$40,000	San Lorenzo Gap.....	\$5,000
Jayuya-Barros.....	49,000	Trujillo-Alto Gap.....	8,000
Corozal-Barros.....	25,000	Adjuntas change.....	7,000
Aguirre-Guayama.....	15,000		
Mameyes-Luquillo.....	14,000	Total.....	175,000
Maricao Gap.....	12,000		

and in bridges:

Reyes Católicos.....	\$40,000
Caguas (Rio Grande).....	25,000
Utua and other bridges on Adjuntas road.....	35,000
Total.....	100,000

It can not be too strongly emphasized that the above figures are but approximate, both as to distances and costs. Surveys as yet do not exist, and costs have been based on knowledge of the topography and comparison with the cost of roads in similar localities in the island.

A potent cause of wear and tear in the insular roads is the narrow tire found on two-wheeled carts, often carrying as much as 4,000, although limited by law to but 3,000 pounds. Such tires run from 2½ to 3½ inches in width.

If the Ohio law, for instance, were applied to carts with such a maximum load, these tires would be 5 inches in width. Legislation is needed that will enforce such changes, the same to take effect four years from date.

## BUREAU OF INSULAR TELEGRAPH.

A comparative statement in tabular form, Table No. 5, is added, giving cash receipts for the fiscal years 1903-4 and 1904-5. It shows a gratifying increase in cash of \$5,876.07, or 19.6 per cent over the

preceding year, largely due to the increase in the general business of the island. An election year is responsible for the great increase in free messages.

TABLE 5.—Statement showing the amount of cash receipts and the computed value of free business handled by the bureau of insular telegraph during the fiscal years 1903-4 and 1904-5; also showing the increase in both classes of business for the latter over the former fiscal year.

Month.	1904-5.		1903-4.		Increase for fiscal year 1904-5.		
	Cash receipts.	Computed value of free mes-sages.	Cash receipts.	Computed value of free mes-sages.	Cash receipts.	Computed value of free mes-sages.	Total.
July .....	\$2,682.97	\$1,655.53	\$2,225.10	\$1,243.02	\$457.87	\$412.51	\$870.38
August .....	2,395.70	1,722.41	1,752.55	1,174.37	643.15	548.04	1,191.19
September .....	2,785.15	2,373.67	1,971.85	1,466.30	813.30	907.37	1,720.67
October .....	3,242.37	6,871.85	2,547.95	1,607.22	694.42	5,264.67	5,959.05
November .....	3,158.95	4,807.38	2,500.57	1,279.41	658.38	3,527.97	4,186.35
December .....	2,748.43	2,017.66	2,740.90	1,272.08	7.53	745.58	753.11
January .....	2,862.01	2,163.74	2,601.65	1,226.91	260.36	936.83	1,197.19
February .....	3,130.92	2,221.86	2,775.48	1,306.50	355.44	915.36	1,270.80
March .....	3,438.02	2,212.34	2,798.67	1,490.80	639.35	721.54	1,360.89
April .....	3,105.02	2,148.45	2,741.65	1,577.25	363.37	571.20	934.57
May .....	3,024.14	2,300.10	2,535.41	1,592.13	488.73	707.97	1,196.70
June .....	3,282.11	2,044.00	2,787.94	1,739.01	494.17	304.99	799.16
Total .....	35,855.79	32,538.99	29,979.72	16,975.00	5,876.07	15,563.99	21,440.06

On June 7 new instructions were issued to telegraph operators defining what constituted a free message. It is known that this change has discouraged many who formerly abused the privilege. In spite of this, though, free messages show a tendency to increase more than ever, as shown in the returns, as follows:

	Cash receipts.	Free messages.
July, 1903.....	\$2,215.10	\$1,243.02
July, 1904.....	2,682.97	1,655.53
July, 1905.....	3,037.81	2,245.38

The judiciary and the police are largely responsible for the bulk of this free activity.

To correct this abuse, and at the same time increase somewhat the revenue of this bureau, measures are now being taken, and on October 1, 1905, with the exception of the insular police, the officers of the United States Army and Navy and the members of the legislature, on legislative business, the other government departments and bureaus will be charged half rates on all messages. As this money will have to come out of the various contingent funds, the tendency will be, at any rate, to discourage a verbosity not in keeping with correct telegraphic traditions.

The budget for the year amounted to a grand total of \$58,800, of which \$45,629.65 were expended in salaries, \$11,939.92 in contingencies, and unexpended \$1,230.43 were returned to the treasury. There are 832 kilometers of wire and 46 stations.

#### DIVISION OF PUBLIC LANDS.

The public lands, as now known, seem to date back to a decree of the King of Spain, dated January 14, 1778, where such lands were given to the people of the island as a whole, in exchange for the keep-

ing up by them of seven battalions of militia and three armed brigs. Later on, in 1811, a certain Junta de Terrenos Baldíos turned these lands over to private individuals, under the condition that tenure of the same should imply cultivation, and that the lands should revert to the people in case of failure on the part of the individuals. Some land was thus taken up. What was left and what reverted to the island make up the so-called public lands.

As the lands apparently have never been surveyed and have only been examined and classified to a limited extent, nothing exact can be affirmed as to their value and, what is worse, even as to their exact location. It is supposed that some 80,000 acres still exist in not less than 500 lots. In a few cases surveys of adjacent properties tend to fix some of the boundary lines.

An appropriation of at least \$25,000 is needed to make such a survey, which should include an examination and classification with a view to fix values. During the three last months of the fiscal year Mr. Armando Morales, chief of the division, has examined the important tracts known as the "Caño de los Tiburones" and several large and important tracts in the neighborhood of Yauco, and has made reports on the same, which, at any rate, give a much clearer idea relating to what is thought to be the property of the island in these particular places. Without an actual survey, though, such information at the best is unsatisfactory.

Mr. Morales has also made a general report on the public lands, and a map, here included, showing their probable location and shape. What is certain is that these lands are squatted on, and have been encroached on every year by adjacent proprietors. Since the American occupation attempts seem to have been made to make leases, the result being unsatisfactory, for so far only two lots have been thus leased.

## BUREAU OF DOCKS AND HARBORS.

But three ports—San Juan, Ponce, and Mayaguez—collect fees. Table No. 6 shows what has been collected in the year ended June 30, 1905.

TABLE NO. 6.—*Harbor fees in ports San Juan, Ponce, and Mayaguez, fiscal year ended June 30, 1905.*

Date.	San Juan.	Ponce.	Mayaguez.	Total.
1904.				
July.....	\$2,053.98	\$153.01	\$159.75	\$2,366.74
August.....	1,365.01	114.47	109.00	1,588.48
September.....	1,282.70	195.68	186.24	1,664.62
October.....	1,102.10	321.85	211.48	1,635.43
November.....	1,386.82	332.58	123.18	1,844.58
December.....	1,222.34	339.94	171.28	1,732.56
1905.				
January.....	1,692.12	202.20	125.53	2,019.85
February.....	1,743.47	264.86	211.56	2,219.89
March.....	1,487.16	455.30	174.29	2,116.75
April.....	1,823.72	166.63	104.77	2,095.12
May.....	1,370.69	352.27	163.68	1,886.64
June.....	1,415.44	349.48	172.07	1,936.99
Total.....	17,945.55	3,248.27	1,912.83	23,106.65

Total collected year ended June 30, 1905.....	\$23,106.65
Total collected year ended June 30, 1904.....	21,369.05
Increase .....	1,737.60

# 18 REPORT COMMISSIONER OF INTERIOR FOR PORTO RICO.

Table No. 7 gives particulars as to number, character, and tonnage of vessels.

TABLE No. 7.—*Number, character, and tonnage of vessels entering San Juan, Ponce, and Mayaguez during year ended June 30, 1905.*

	San Juan.		Ponce.		Mayaguez.		Total steam.	Total sail.
	Steam.	Sail.	Steam.	Sail.	Steam.	Sail.		
American:								
Vessels.....	184	35	78	32	61	19	323	86
Tonnage.....	522,629	25,982	234,673	18,566	189,092	5,088	946,394	49,636
Foreign:								
Vessels.....	129	25	123	36	73	31	325	92
Tonnage.....	367,493	4,419	277,654	6,037	132,459	4,215	777,606	14,671
American war vessels	158		3				170	
Foreign war vessels.....	4				9		5	
Other vessels.....	14				1			

NOTE.—This statement does not include the visits of vessels exclusively in the coastwise trade of the island of Porto Rico. Of these we have 3 small steamers and 54 sailing vessels ranging from 6 to 69 tons.

TABLE 8.—*Maintenance and repair of public buildings, fiscal year 1904-5.*

Object.	Appropriation.	Transfers from miscellaneous expenses, subject to approval of governments.	Transfers, harbor improvements.	Disbursements to June 30, 1905.	Agreements and accounts payable.	Balance June 30, 1905.
Preservation, care, and repair...	\$15,001.00			\$13,568.93	\$1,395.50	\$36.57
Water.....	16,000.00			12,211.80		3,788.20
Electric light.....	6,000.00			5,700.55		299.45
Expenses, executive mansion.....	12,000.00			12,000.00		
Repairs, Insane Asylum.....	1,500.00			1,496.92		3.08
Installation and repairs for printing office, S. F. Barracks.....		\$1,000.00		1,000.00		
Repairs, police quarters, S. F. Barracks.....		500.00		499.88		.12
Repairs, Insane Asylum.....		5,500.00				5,500.00
Repairs, Girls' Charity School.....		2,000.00		7.50		1,992.50
Repairs, Boys' Charity School.....		1,750.00		13.46		1,736.54
Repairs, Leper Colony.....		750.00				750.00
Trust fund—repairs, capitania, Ponce.....			\$600.00	505.58		94.42

## TRUST FUND, NO FISCAL YEAR.

Repairs, military barracks, Ponce	\$23,000.00			\$20,112.96		\$2,887.04
Repairs, Blind Asylum, Ponce	5,000.00			4,999.30		.70
Repairs, district court building, Arecibo	2,000.00			97.50	\$1,582.00	320.50
Building district jail, Arecibo	35,000.00			593.12		34,406.88

TABLE 9.—Maintenance and repair of public buildings; preservation, care, and repairs.

[Appropriation, \$15,001.]

Designation.	Labor.	Supplies and repairs.	Total expended.	Agreements and accounts payable.	Balance.
Contingent expenses.....	\$1,754.16	\$263.20	\$2,017.36		
Intendencia.....	256.47	690.62	947.09	\$745.50	
Fortaleza No. 3.....	753.41	801.74	1,555.15		
Insular police barracks, Pta. de Tierra.....	5.37	18.20	23.57		
Diputacion.....	407.22	1,656.07	2,063.29		
Boys' Charity School.....	142.24	626.16	768.40		
Leper colony.....	75.75	148.14	223.89		
P. W. stables.....	15.74	269.44	285.18		
Warehouse marina.....	34.86	32.00	66.86		
Red House.....	48.36	36.65	85.01		
Fortaleza No. 5.....	191.97	436.04	628.01		
Fortaleza No. 2.....	323.98	602.62	926.60		
Storehouse, P. W.....	74.37	100.66	175.03		
Audiencia.....	182.37	300.70	483.07		
Penitentiary.....	57.25	117.03	174.28		
Secretary's office.....	32.30	32.21	64.51		
Pabellon.....	116.98	279.49	396.47		
"San Francisco" Barracks.....	6.50	364.00	370.50		
Girls' Charity School.....	16.50	36.57	53.07		
Insane Asylum.....		150.74	150.74		
Blind Asylum, Ponce.....	239.75	53.30	293.05		
District court building, Arecibo.....		805.00	805.00	75.00	
District jail, Ponce.....	299.99	20.90	320.89		
Capitanía, Ponce.....		691.91	691.91		
Capitanía, Mayaguez.....				575.00	
	5,035.54	8,533.39	13,568.93	1,395.50	\$36.57

## DIVISION OF PUBLIC BUILDINGS.

Tables 8 and 9 show appropriations from various sources and expenditures relating to the various buildings maintained by the insular government.

## PERSONNEL.

In the appendix will be found a list of all permanent employees now in the employ of the Department.

The following comparative tabular statement of office salaries for the last and the present year shows on its face that retrenchments in certain bureaus and divisions were deemed necessary. The Bureau of Telegraph was not touched.

	Salaries, 1904-5.		Salaries, 1905-6.
	Allotted.	Disbursed.	Allotted.
Office of the commissioner.....	\$11,760.00	\$9,498.86	\$8,450.00
Office of public works.....	27,840.00	25,498.83	20,960.00
Office of public lands.....	4,100.00	3,691.66	2,600.00
Office of archives.....	2,800.00	2,738.88	1,600.00
Office of disbursements.....	10,130.00	9,622.00	6,490.00
Office of docks and harbors.....	4,560.00	4,495.83	3,200.00
Total.....	61,190.00	55,546.06	43,310.00

The saving of \$5,643.94 in 1904-5 is due to the fact that during the last four months of that year many resignations were accepted. As shown, the saving for the present year is \$17,880 over last year.

The present incumbents of the positions of assistant commissioner and superintendent of public works are Messrs. L. J. Proctor and J. J. Jimenez, and I can not speak too highly of their zeal and ability.

It also gives me pleasure to refer to Messrs L. G. McGuigan, A. G. de Quevedo, J. M. Hughart, A. Morales, and F. Gutierrez, who are respectively in charge of the various bureaus of telegraph, docks, and harbors, public buildings, public lands, and archives, and to thank them as well for their able and willing cooperation in the work generally and in this report specifically.

Calling your attention to the appendix which contains in addition maps of this island showing the insular roads and the public lands, I remain,

Most respectfully,

J. S. ELLIOTT,  
*Commissioner of the Interior.*

Hon. E. A. HITCHCOCK,

*Secretary of the Interior, Washington, D. C.*  
(Through the Governor of Porto Rico.)

# APPENDIX.

## PERMANENT EMPLOYEES, DEPARTMENT OF THE INTERIOR.

Name.	Official designation.	Nationality.	Salary.	Remarks.
<i>Office of the Commissioner proper.</i>				
J. S. Elliott.....	Commissioner.....	American.....	\$4,000	
Lewis J. Proctor.....	Assistant commissioner.....	do.....	2,500	
José Blanco.....	Clerk.....	Porto Rican.....	1,200	
Antonio Perez.....	Sig. clerk.....	do.....	300	
Julian Vega.....	Janitor.....	do.....	360	
<i>Division of archives.</i>				
F. Gutierrez.....	Chief clerk.....	Porto Rican.....	1,000	
F. L. Sanchez.....	Clerk.....	do.....	600	
<i>Division of public lands.</i>				
Armando Morales.....	Chief of division.....	Porto Rican.....	1,600	
E. C. Gonzalez.....	Clerk.....	do.....	1,000	
<i>Division of harbors and docks.</i>				
A. G. de Quevedo.....	Chief of division.....	Porto Rican.....	1,600	
P. E. Martinez.....	Capt. P. Ponce.....	do.....	1,000	
Ramon Brandes.....	Capt. Mayaguez.....	do.....	600	
<i>Bureau of public works.</i>				
J. J. Jimenez.....	Superintendent.....	Porto Rican.....	3,000	
F. Montilla.....	Assistant superintendent.....	do.....	2,000	
Geo. W. Jones.....	Chief clerk.....	American.....	1,800	
J. M. Hugahart.....	General inspector.....	do.....	1,800	
J. Madera.....	Overseer public buildings.....	Porto Rican.....	1,500	
F. Vall-Spinosa.....	Stenographer.....	do.....	1,200	
F. Fano.....	do.....	do.....	1,200	
J. F. Callejo.....	Chief draftsman.....	do.....	1,400	
Enrique Guillen.....	Draftsman.....	do.....	720	
Ramon Carbia.....	Clerk.....	do.....	1,200	
E. D. Delgado.....	do.....	do.....	1,200	
Victor J. Hernandez.....	do.....	do.....	1,000	
Henry Simounet.....	do.....	do.....	900	
F. Tallada.....	Blueprint man.....	do.....	360	
H. Rodriguez.....	Messenger.....	do.....	360	
José Cintron.....	Watchman.....	do.....	360	
Justo Solivan.....	do.....	do.....	360	
J. O. Melendez.....	Teamster.....	do.....	600	
<i>District No. 1.</i>				
José Montilla.....	Traveling inspector.....	Porto Rican.....	1,080	Traveling expenses, \$588.
Ed. M. Beltran.....	Inspector.....	do.....	600	
Cosme Torres.....	Capataz.....	do.....	360	
José F. Diaz.....	do.....	do.....	360	
Juan Guadalupe.....	do.....	do.....	360	
J. R. Rivera.....	do.....	do.....	360	
Ramon Seijo.....	do.....	do.....	408	
José A. Jordan.....	Captain auxiliary.....	do.....	540	
<i>District No. 2.</i>				
Jesus Benitez.....	Traveling inspector.....	Porto Rican.....	1,200	
F. del Valle.....	do.....	do.....	900	Traveling expenses, \$96.
Nicolas T. Diaz.....	Capataz.....	do.....	360	
José Sotelo, 2do.....	do.....	do.....	360	
Pedro Vte. Vazquez.....	do.....	do.....	408	
Julio Maymi.....	do.....	do.....	408	
M. Jesus Abrams.....	do.....	do.....	360	

# 22 REPORT COMMISSIONER OF INTERIOR FOR PORTO RICO.

## PERMANENT EMPLOYEES, DEPARTMENT OF THE INTERIOR—Continued.

Name.	Official designation.	Nationality.	Salary.	Remarks.
<i>District No. 3.</i>				
Juan J. Gerardino.....	Traveling inspector .....	Porto Rican ..	\$1,080	Traveling expenses, \$468.
Antonio Figueroa.....	Capataz .....	do .....	408	
Leon de Leon .....	do .....	do .....	408	
Regalado Benitez.....	do .....	do .....	408	
Guillermo Gimenez.....	do .....	do .....	408	
<i>District No. 4.</i>				
E. Andino .....	Traveling inspector .....	Porto Rican ..	1,080	Traveling expenses, \$468.
Fidel Pelaez.....	Capataz .....	do .....	360	
Blas Acosta.....	do .....	do .....	360	
Ventura Pereira.....	do .....	do .....	360	
Emiliano L. Soto .....	do .....	do .....	408	
C. A. Vizcarrondo .....	Watchman .....	do .....	180	
<i>District No. 5.</i>				
Jaime Puig .....	Traveling inspector .....	Porto Rican ..	1,080	Traveling expenses, \$528.
J. M. Fonseca .....	Capataz .....	do .....	360	
Manuel Cintron .....	do .....	do .....	360	
Leandro Ruiz .....	do .....	do .....	360	
Abdon Goicoechea .....	do .....	do .....	408	
Orozco Carattini .....	do .....	do .....	408	
<i>District No. 6.</i>				
Martin Aparicio.....	Traveling inspector .....	Porto Rican ..	1,080	Traveling expenses, \$588.
Vicente Calvente.....	Capataz .....	do .....	408	
Manuel R. Ruiz.....	do .....	do .....	408	
Erelilio Salles .....	do .....	do .....	360	
Esteban Bermudez .....	do .....	do .....	408	
Vicente Villalba .....	do .....	do .....	408	
Ramon Martinez .....	do .....	do .....	408	
<i>District No. 7.</i>				
L. Mendez Cardona.....	Traveling inspector .....	Porto Rican ..	1,080	Traveling expenses, \$528.
Avelino Hernandez .....	Capataz .....	do .....	360	
José Ayala .....	do .....	do .....	360	
Francisco Santos .....	do .....	do .....	408	
Pio Pascual .....	do .....	do .....	408	
Juan E. Simonó.....	do .....	do .....	408	
Aquiles Ortiz .....	do .....	do .....	408	
Juan Colon .....	Inspector .....	do .....	720	
José Casaldue .....	Inspector of bridges .....	do .....	720	
Ramon Baez .....	Watchman .....	do .....	120	Traveling expenses, \$60.
<i>Steam road rollers.</i>				
(Roller No. 1.)				
Alfredo Rodriguez .....	Driver .....	Porto Rican ..	600	
José Carazo .....	Watchman .....	do .....	240	
(Roller No. 2.)				
Juan Carmona.....	Driver .....	Porto Rican ..	600	
Braulio Bonilla.....	Watchman .....	do .....	240	
(Roller No. 3.)				
Arsenio Bravo.....	Driver .....	Porto Rican ..	540	
Enrique Rossy .....	Watchman .....	do .....	240	
(Roller No. 4.)				
José A. Torruellas.....	Driver .....	Porto Rican ..	540	
Bartolomé Flores.....	Watchman .....	do .....	420	
(Roller No. 5.)				
Ramon Nadal .....	Driver .....	Porto Rican ..	540	
Epifanio Capella .....	Watchman .....	do .....	180	
(Roller No. 6.)				
Francisco Cantellops.....	Driver .....	Porto Rican ..	540	
Genaro Lopez.....	Watchman .....	do .....	180	



## PERMANENT EMPLOYEES, DEPARTMENT OF THE INTERIOR—Continued.

Name.	Official designation.	Nationality.	Salary.	Remarks.
<i>Steam road rollers—Continued.</i>				
(Roller No. 7.)				
C. Mora.....	Driver.....	Porto Rican..	\$540	
Julian Wilson.....	Watchman.....	do.....	240	
(Roller No. 8.)				
José E. Garcia.....	Driver.....	Porto Rican..	540	
Hermogenes Matos.....	Watchman.....	do.....	240	

## SPECIAL EMPLOYEES' TRUST FUND.

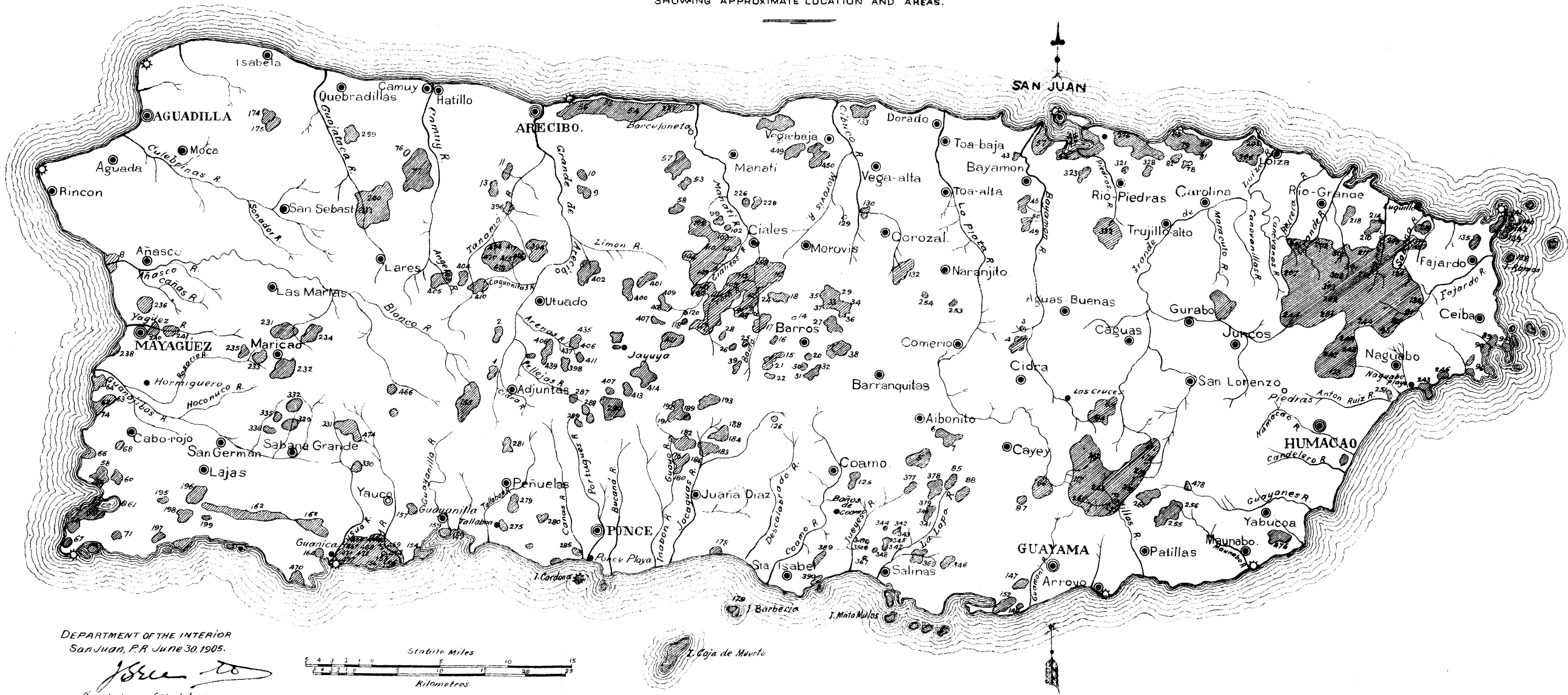
<i>Barros-Barranquitas road.</i>				
A. Vazquez.....	Resident engineer.....	Porto Rican..	\$1,080	
J. A. Davila.....	Assistant surveyor.....	do.....	900	
José Casanova.....	Chainman.....	do.....	540	
<i>Jayuya-Alto de la Bandera road.</i>				
A. Ruiz Cardona.....	Resident engineer.....	Porto Rican..	1,200	
Antonio Martinez.....	Paymaster.....	do.....	900	
Manuel R. Ferrer.....	Rodman.....	do.....	540	
Lope Montalvo.....	Laborer.....	do.....	180	
Leonardo Lamberty.....	do.....	do.....	180	
<i>Humacao-Yabucoa road.</i>				
T. Watson.....	Inspector.....	American....	1,080	
Ventura Alvarez.....	Paymaster.....	Porto Rican..	900	
<i>Arroyo-Patillas road.</i>				
Enrique Umpierre.....	Overseer.....	Porto Rican..	720	
<i>Maintenance and repairs of public buildings.</i>				
J. P. Kenney.....	Foreman.....	American....	1,080	
Domingo Ortega.....	do.....	Porto Rican..	1,080	
Rafael Margary.....	Watchman.....	do.....	360	
<i>Construction of jail at Arceibo.</i>				
Alonso Aquilar.....	Inspector.....	Porto Rican..	1,200	
<i>Bureau of insular telegraph—Superintendent's office.</i>				
L. G. McGuigan.....	Superintendent.....	American....	2,000	
John McGlone.....	Clerk.....	do.....	1,200	
William Amy.....	do.....	do.....	900	
Eduardo Gonzalez.....	do.....	Porto Rican..	500	
Francisco Baquero.....	Messenger.....	do.....	120	
Salvador Barrios.....	Lineman.....	do.....	480	
Dolores Belaval.....	Manager.....	do.....	480	
A. H. Biascoechea.....	Operator.....	do.....	720	
H. L. Biascoechea.....	do.....	do.....	900	
J. A. Biascoechea.....	do.....	do.....	840	
A. S. Bissell.....	Manager.....	American....	600	
Antonio Budet.....	do.....	Porto Rican..	720	
Antonio Budet, jr.....	do.....	do.....	600	
Carlos Budet.....	do.....	do.....	480	
Maria Casaldue.....	do.....	do.....	480	
Maria Luisa Caso.....	do.....	do.....	480	
R. H. Castejon.....	do.....	do.....	480	
Maximino Cintron.....	Lineman.....	do.....	480	
Francisco J. Cobos.....	Operator.....	do.....	720	
Frank L. Cole.....	Manager.....	American....	1,000	
Francisco Colon.....	Messenger.....	Porto Rican..	120	
Florentino Cruz.....	Manager.....	do.....	600	
Amparo Diaz.....	do.....	do.....	480	
John J. Dore.....	do.....	American....	1,080	
Segundo Dupra.....	Lineman.....	Porto Rican..	480	
Andres Elvira.....	Messenger.....	do.....	240	
Pablo Elvira.....	do.....	do.....	180	

## PERMANENT EMPLOYEES, DEPARTMENT OF THE INTERIOR—Continued.

Name.	Official designation.	Nationality.	Salary.	Remarks.
<i>Bureau of insular telegraph—Superintendent's office—Cont'd.</i>				
Carmen Fuentes .....	Manager .....	Porto Rican ..	\$480	
Rafael Garcia .....	do .....	do .....	720	
Josefa Girau .....	Operator .....	do .....	840	
Carmen Maria Gomez ..	Manager .....	do .....	480	
Guillermo Gonzalez ..	do .....	Venezuelan ..	480	
Ramon Gonzalez .....	Lineman .....	Porto Rican ..	480	
Gregorio Guadalupe ..	Messenger .....	do .....	180	
Juan Guas .....	Lineman .....	do .....	480	
Pedro Guzman .....	Manager .....	do .....	720	
Geo. W. Higgs .....	do .....	American .....	900	
Celestino Iriarte .....	Operator .....	Porto Rican ..	480	
Juan Laborde .....	Messenger .....	do .....	60	
Manuel Lanuza .....	Manager .....	do .....	720	
Alfonso Lausell .....	do .....	do .....	480	
Rafael Lausell .....	Messenger .....	do .....	60	
L. D. Lindsley .....	Operator .....	American .....	900	
Ramon Lizardi .....	Manager .....	Porto Rican ..	480	
Domingo Lopez .....	do .....	do .....	480	
Pablo G. Lopez .....	Clerk .....	do .....	480	
C. P. Marchall .....	Manager .....	American .....	1,080	
Ramon Maria Marti ..	do .....	Porto Rican ..	720	
Jaime Marti y Cuyar ..	do .....	do .....	480	
Franco Miret .....	Messenger .....	do .....	120	
Franco Miret, jr. ....	Manager .....	do .....	480	
Concepcion Molina ..	do .....	do .....	480	
Sergio Molina .....	Messenger .....	do .....	120	
Arturo Montequin .....	Operator .....	do .....	900	
Carmen Montilla .....	Manager .....	do .....	480	
E. Moreno Calderon ..	do .....	do .....	600	
Angel Munet .....	Messenger .....	do .....	120	
Carmen M. Cintron ..	Manager .....	do .....	480	
Toribio Navarro .....	Messenger .....	do .....	120	
Antonio Nuñez .....	Lineman .....	do .....	480	
E. M. Oller .....	Manager .....	do .....	480	
J. M. Oller .....	do .....	do .....	900	
Nicolas Ortiz .....	Messenger .....	do .....	60	
Enrique Palacio .....	Operator .....	do .....	840	
Juan Palacio .....	do .....	do .....	900	
Teresa Palmer .....	Manager .....	do .....	480	
Prudencia Pardo .....	do .....	do .....	480	
F. Pascual Velez .....	Operator .....	do .....	720	
José Pedrogo .....	Manager .....	do .....	480	
A. J. Plá .....	Operator .....	American .....	900	
Encarnación Porrata ..	Manager .....	Porto Rican ..	480	
Matilde Pujals .....	Clerk .....	do .....	480	
Manuel Quesada .....	Messenger .....	do .....	120	
Felipe Ramirez .....	Lineman .....	do .....	480	
Lucila Rieckehoff .....	Manager .....	do .....	480	
Manuel Rodriguez .....	do .....	do .....	720	
Ramon R. Rosario .....	Messenger .....	do .....	180	
Josefa Sabat .....	Manager .....	do .....	480	
Andres Sotomayor .....	Lineman .....	do .....	480	
W. S. Sterner .....	Manager .....	American .....	600	
Consuelo Vazquez .....	do .....	Porto Rican ..	480	
Ysabel V. de Cole .....	do .....	do .....	480	
Gerardo Venegas .....	Operator .....	do .....	600	
Alfredo Vera .....	Manager .....	do .....	480	
Francisco Volmar .....	Lineman .....	do .....	480	
Juan E. Vigo .....	do .....	do .....	720	

MAP OF PUBLIC LANDS OF PORTO RICO.

SHOWING APPROXIMATE LOCATION AND AREAS.



DEPARTMENT OF THE INTERIOR  
San Juan, P.R. June 30, 1905.

*[Signature]*  
Commissioner of the Interior





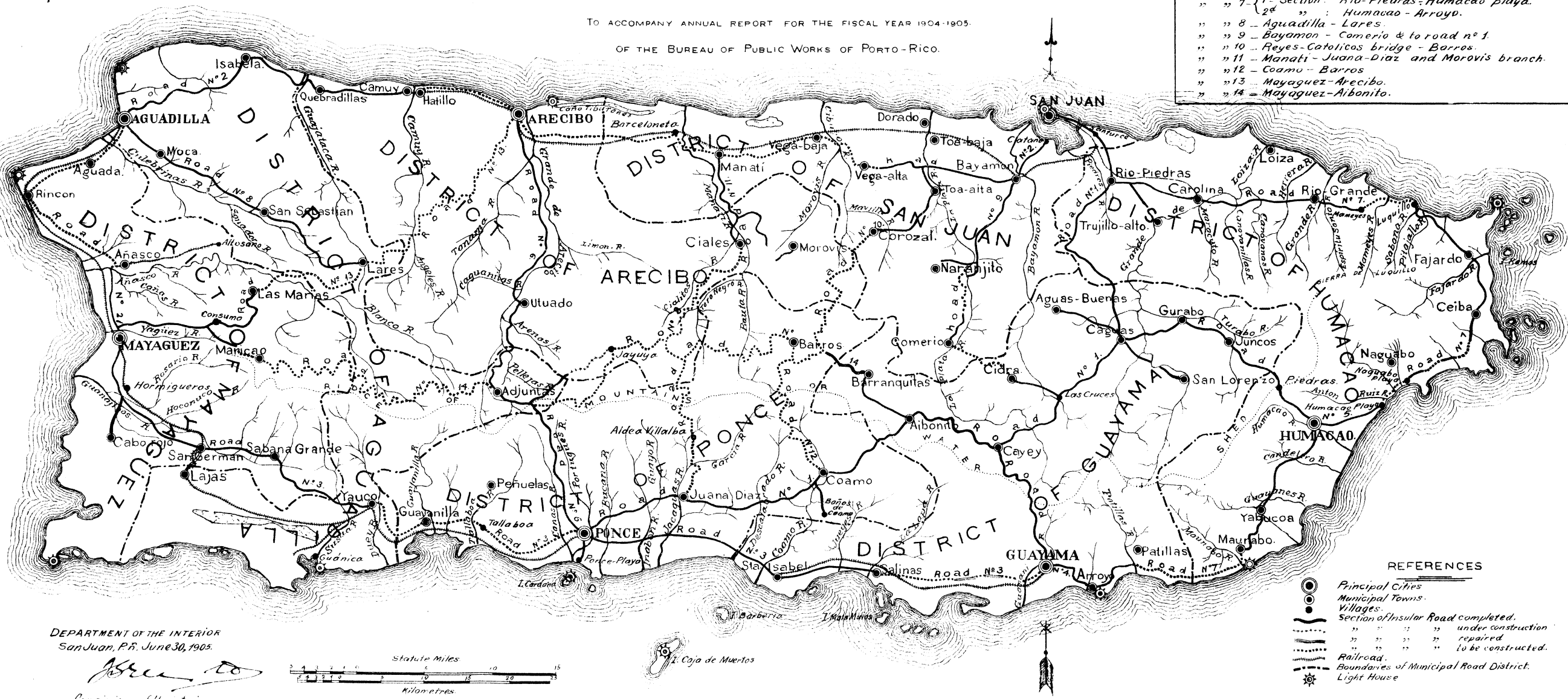
# MAP OF THE ISLAND OF PORTO-RICO.

TO ACCOMPANY ANNUAL REPORT FOR THE FISCAL YEAR 1904-1905.

OF THE BUREAU OF PUBLIC WORKS OF PORTO-RICO.

## GENERAL PLAN OF INSULAR ROADS.

- Road n° 1 - San Juan - Ponce playa  
 " " 2 - Cataño - Mayagüez  
 " " 3 - Mayagüez - Guayama.  
 " " 4 - Cayey - Arroyo  
 " " 5 - Caguas - Humacao-playa  
 " " 6 - Ponce - Arecibo.  
 " " 7 - 1st Section: Río-Piedras-Humacao playa.  
 " " 7 - 2d " : Humacao - Arroyo.  
 " " 8 - Aguadilla - Lares.  
 " " 9 - Bayamon - Comerio & to road n° 1.  
 " " 10 - Reyes-Catolicos bridge - Barros.  
 " " 11 - Manati - Juana-Díaz and Morovis branch.  
 " " 12 - Coamo - Barros  
 " " 13 - Mayaguez-Arecibo.  
 " " 14 - Mayaguez-Albionito.



DEPARTMENT OF THE INTERIOR  
 San Juan, P.R. June 30, 1905.

*Abner D.*  
 Commissioner of the Interior.

